LOH ZHUN YEW

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EDUCATION

Monash University Malaysia   Malaysia
BSC Computer Science   Oct 2017 - June 2020

WORK EXPERIENCE

TikTok Singapore   Singapore
Data Scientist TikTok E-Commerce   Oct 2023 - Present

- Developed brand recognition and library models(over 2 million brands) to support global e-commerce market
- Unified 8 countries' brand recognition model into 1 to be multilingual and multi-modal while increasing accuracy and zero shot capabilities for new market openings such as Mexico, Brazil and Spain
- Increased number of branded products from 12% -> 25% through brand recognition models
- Vastly expanded brand library to include various metadata such as logos, brand story etc. to help improve normalization and recognition
- Developed and automated brand deduplication pipeline for all incoming brands to maintain a deduplication rate of below 10%
- SFT-ed LLM to use RAG in a recommendation system to recommend users products based on their content(live, shorts etc.) viewing experience and products purchasing history
- Post trained LLM using RLHF methods such as GRPO to recommend unique and better products

Shopee Singapore   Singapore
Data Scientist EKYC   Feb 2022 - Nov 2022

- Developed and maintained Backend OCR API systems for multiple regions to automate KYC process
- Trained Image/Text classification, segmentation and OCR models to over 99% accuracy for multiple IC regions
- Improved existing backend API to improve model upgrade time, server build and deployment time by 90%
- Generated synthetic data to allow OCR to support up to 9000 characters
- Deployed and maintained multiple API servers to serve the e-KYC models
- Built evaluation and visualisation tools to imrpove time used for debugging model outputs

Revenue Monster   Malaysia
Software Engineer Machine Learning   August 2020 - January 2022

- Developed End-to-end eKYC system such as OCR, facial recognition, liveness detection and key-region detection up to 95% accuracy
- Prepared and maintained data pipelines for different text and image tasks for deep learning
- Used semi-supervised learning to create and extract new data without using manpower
- Developed and maintained e-KYC API system on AliCloud using docker and kubernetes
- Developed menu segmentation models to help classify food and beverage categories

Monash University Malaysia   Malaysia
Teaching Assistant   August 2020 - January 2022

- Teaching Assistant for Object Oriented Programming in 2020(Nominated for a Teaching Award), Intro to Comp Sci in 2021

SKILLS

Programming Languages:	Java, C++, Python, SQL, Javascript, HTML, CSS, Rust, Go
Relevant Monash Completed Courses:	Algorithms and Data Structures, Advanced Algorithm and Data Structures
Relevant Monash Completed Courses:	Databases, Parallel Computing, Big Data Management and Processing
Certificates:	Certified iOS Developer(2014)
Frameworks:	Flask, Django, ReactJS, Spark, Kafka, MongoDB, Triton, Torchserve
Libraries:	Tensorflow, SciKit, Pytorch, Paddlepaddle
Relevant Tools:	Docker, Alibaba Cloud instances
Relevant Online Courses:	Andrew Ng's Machine Learning, Deep Learning. CS50 Web development
Relevant Online Courses:	Stanford's NLP with Deep Learning